

# International Minigrids Workshop Invitation

8th - 9th November, 2010

CSIRO Energy Centre, Newcastle, Australia



This informative workshop, hosted by the CSIRO — Australia's National Science Institution — will bring together world-leading experts on minigrid technologies for an intensive two-day program of presentations and discussions on minigrids in the Asia-Pacific.

Over these two days of exclusive technical presentations, delegates will be provided with an opportunity to network and discuss the real world challenges that have thus far inhibited the large-scale acceptance of minigrids and the steps being taken to surmount these hurdles.

Please find attached a preliminary agenda — delegates attendance at the workshop is free and our organisers, Happenings Australia are happy to assist with booking any accommodation and flights on your behalf.

We look forward to welcoming you to the International Minigrids Workshop in Newcastle this coming November.



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## CSIRO Energy Technology

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Day 1: Monday 8th November, 2010

## Inside the Minigrid

9:00 AM	Registration	
9:30 AM	Session I:  Optimal Planning of Minigrids	Planning for waste-heat utilisation, maximisation of renewable generation penetration, transmission network design and selection of generation technologies.
10:00 AM		
10:30 AM		
11:00 AM	Morning Tea	
11:30 AM	Session II:  Dynamic load and generation management.	Prediction of loads and available generation, development of representative load profiles, use of storage technologies to smooth intermittent renewable generation and load-shedding techniques.
12:00 PM		
12:30 PM		
1:00 PM	Lunch	
1:30 PM		
2:00 PM	Session III:  Fault detection in minigrids	Detection of system faults through voltage and frequency analysis in minigrids, optimal sensor configurations and proposed safety margins.
2:30 PM		
3:00 PM		
3:30 PM	Afternoon Tea	
4:00 PM	Session IV:  Optimal Storage	Selection of appropriate storage technologies for minigrid deployments, examination of the trade-offs between sizing and reliability, fault-ride-through issues and charge/discharge strategies.
4:30 PM		
5:00 PM		
5:30 PM	Close	

Day 2: Tuesday 9th November, 2010

## Minigrids: the wider picture

9:00 AM	Arrival	
9:30 AM	Session I:  Minigrids and the Macro grid	Impact of minigrids on the wider grid, including system reliability, protection, important legislative directions and safety requirements.
10:00 AM		
10:30 AM		
11:00 AM	Morning Tea	
11:30 AM	Session II:  Tour of the CSIRO Energy Centre	Tour of the Australian Renewable Energy Integration Test Facility and CSIRO Energy Centre. The tour will highlight real-world minigrid technologies and advanced energy efficiency systems.
12:00 PM		
12:30 PM		
1:00 PM		
1:30 PM	Lunch	
2:00 PM		
2:30 PM	Session III:  Minigrid Discussion Forum	An expert panel will take questions from the audience on the past, present and future of minigrids in the Asia-Pacific region.
3:00 PM		
3:30 PM		
4:00 PM		
4:30 PM	Close	